



## **NORTH CAROLINA** Department of Transportation



# Survey Control Sheets Overview

Location & Surveys Unit

September 2017

# Survey Control Sheets

- History of Control Sheets
- New Legislation/Response
- Overview of Individual Sheets
- Property Ties

# Survey Control Sheets History

- 2003 Introduction
- 2010 Addition of R/W Tables
- 2017 Addition of R/W sheets

# Survey Control Sheets

## Control Sheets Breakdown

- C Series (Survey Control and Existing Centerlines)
- D Series (Design Alignment Cardinal Stations)
- E Series (R/W and Easement Tables)
- RW Series (Modified Plan Sheets for Clarity)

# House Bill 501

10 **"§ 136-19.4A. Required surveying information in certain acquisition plans.**

11     The Department of Transportation shall include in any plan prepared for the purpose of  
12 acquiring right-of-way, a permanent easement, or both, that depicts property lines, right-of-way  
13 lines, or permanent easements, a set of drawings that clearly identify design alignments,  
14 baseline control points, found property-related corner markers, and new right-of-way and  
15 permanent easement corner markers. Plans subject to the requirements of this section shall  
16 document the localized coordinates for each major control point along the design alignments.  
17 The coordinates and associated localization metadata shall be based upon, and tied to, the North  
18 Carolina State Plane Coordinate system and shall be clearly identified within the plans. All  
19 property corner markers found and surveyed shall be clearly identified within the plans in  
20 accordance with general surveying standards and procedures. Each property corner marker  
21 shall be accurately tied to the design alignment or the North Carolina State Plane Coordinate  
22 system, by either a system of bearings and distances or by station and offset."

# Chief Engineer's Memo



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

April 18, 2017

To: Division Engineers, Division of Highways  
Unit Heads, Technical Services

From: Mr. Mike L. Holder, PE  
Chief Engineer, Division of Highways

Subject: Mapping Requirements for Transportation Facility Plans

The following concerns have been expressed by the NC Board of Examiners for Engineers and Surveyors (NCBEES) regarding NCDOT highway and Secondary Road plans:

1. Lack of public availability of plans for NCDOT land acquisition.
2. Lack of metadata on plans, including coordinate system, control points set, and closures.
3. Complexity of plans (readability, alignments).
4. Lack of consistency in locating, documenting, and representing property boundaries.
5. Complexity of right of way deeds, based on station/offset.
6. Chain of responsible charge for the PLS doing survey/mapping work.
7. Proper monumentation of the right of way (not part of the committee discussion but as a result of conversation with NCBEES).

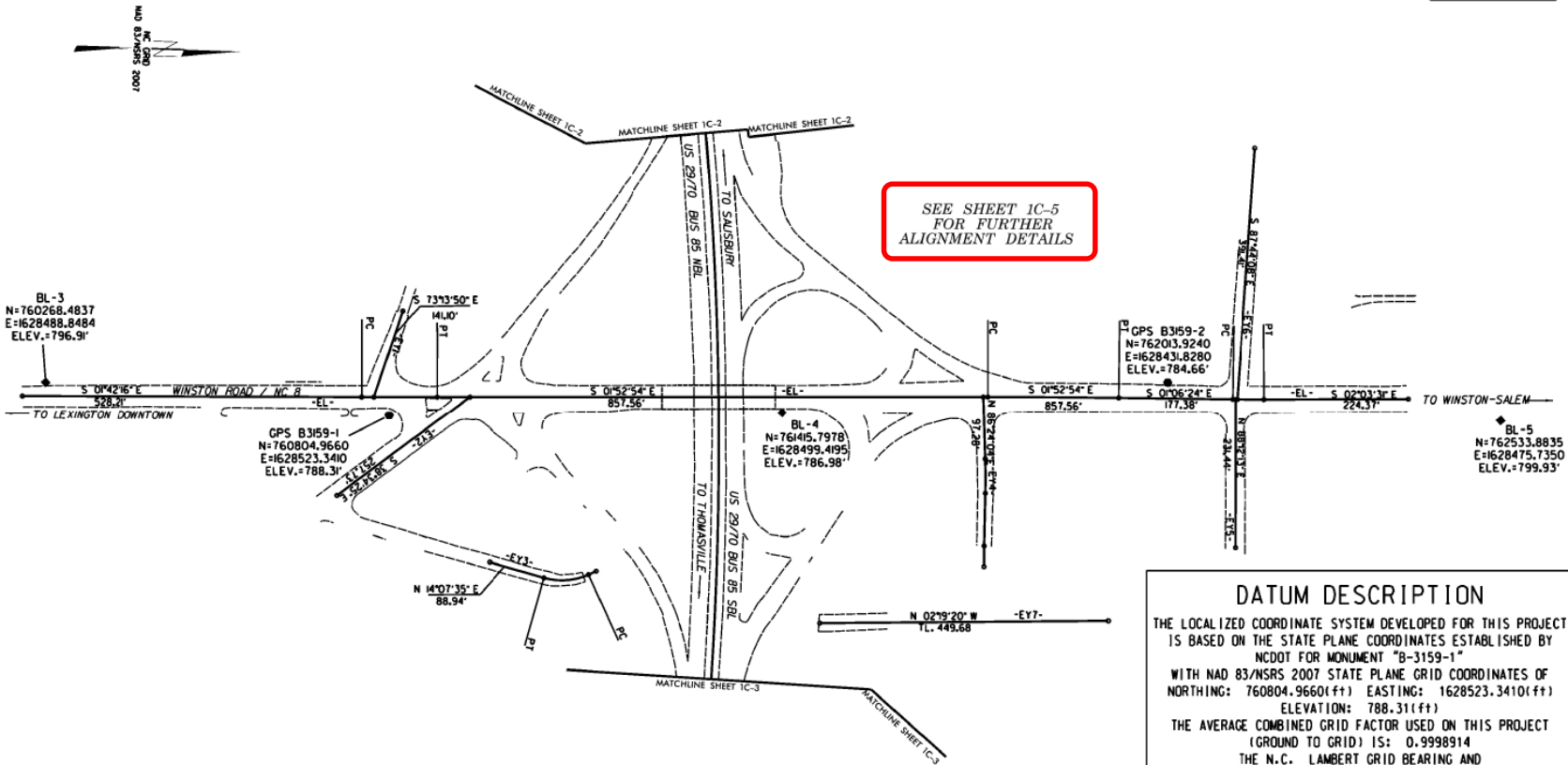
# C Series Sheets

- Survey Control and Existing Centerlines
- Delivered with Full Surveys

FINAL SAMPLE PLANS  
JULY 2017

**SURVEY CONTROL SHEET B-3159**  
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-3159	1C-1
Location and Surveys	
PROJECT SURVEYOR	



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B-3159-1"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF  
NORTHING: 760804.9660(ft) EASTING: 1628523.3410(ft)  
ELEVATION: 788.31(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998914

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-3159-1" TO -L- STATION 7+75.00 IS  
S 6° 55' 25.3" E 54.10'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
VERTICAL DATUM USED IS NAVD 88

CLEAR AND LEGIBLE

- NOTES:
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

NOTE: DRAWING NOT TO SCALE

6/2/2017 1:20 PM C:\Users\jgarcia\Documents\Example Projects\B3159\Complex\B3159.La.psd,1c-1.dgn

# FINAL SAMPLE PLANS

## JULY 2017

# SURVEY CONTROL SHEET B-3159

## W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-3159	1C-5
Location and Surveys	

PROJECT  
SURVEYOR

FL TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
POT	760233.044	1628511.613	N 01°42'16.2" W	528.21					
LINE	760761.019	1628495.901							
PC	760761.019	1628495.901	N 01°47'35.2" W	117.55	00°10'38.1" (L.T.)	00°09'02.8"	117.549	56.775	3000.000
PT	760876.510	1628492.223							
LINE	761735.626	1628464.864	N 01°52'54.2" W	857.55					
PC	761735.626	1628464.864	N 01°29'39.1" W	202.91	00°46'30.2" (RT)	00°22'55.1"	202.907	101.455	15000.000
PT	761938.443	1628458.773							
LINE	762115.785	1628455.347	N 01°06'24.8" W	177.38					
PC	762115.785	1628455.347	N 01°34'57.5" W	49.84	00°57'06.9" (L.T.)	01°54'35.5"	49.842	24.922	3000.000
PT	762165.688	1628453.971							
LINE	762389.824	1628445.911	N 02°03'30.9" W	224.37					
POT									

EY TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
PC	761050.304	1626995.448							
CURVE	761179.814	1629999.798	N 07°31'54.0" E	3007.14	30°35'22.0" (RT)	01°00'18.7"	3043.154	1558.779	5700.000
PT									

EY1 TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
PC	760934.128	1627738.897	S 65°41'47.2" E	119.07	42°18'03.8" (L.T.)	34°43'29.0"	121.018	63.835	165.000
PT	760885.122	1627847.415	S 86°50'49.0" E	155.34					
LINE	760876.578	1628002.517	S 85°08'11.0" E	119.40	03°25'16.1" (RT)	02°51'53.2"	119.421	59.728	2000.000
PC	760866.455	1628121.490	S 83°25'32.9" E	38.87					
PT	760862.005	1628160.101	S 78°19'41.4" E	204.35	10°11'42.9" (RT)	04°58'56.1"	204.632	102.587	1150.000
PC	760820.661	1628360.237	S 73°13'50.0" E	141.10					
PT	760779.952	1628495.333							

EY2 TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
POT	760929.095	1628490.561	S 38°34'25.1" E	257.73					
LINE	760727.602	1628651.260							
POT									

EY3 TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
POT	760960.602	1628746.945	N 14°07'35.4" E	88.94					
LINE	761054.847	1628768.651	N 06°05'42.2" W	69.13	40°26'35.3" (L.T.)	57°17'44.8"	70.587	36.836	100.000
PT	761123.537	1628761.311							
LINE	761135.515	1628795.411	N 26°18'59.9" W	13.31					
POT									

EY4 TYPE	NORTH	EAST	BEARING	DISTANCE	DELTA	DOC	LENGTH	TANGENT	RADIUS
POT	761720.481	1628464.298	N 86°24'4.4" E	97.28					
LINE	761734.587	1628561.390	N 87°55'54.5" E	53.42	03°03'40.3" (RT)	05°43'46.5"	53.428	26.720	1000.000
PC	761736.515	1628614.776	N 89°27'44.7" E	81.78					
PT	761737.282	1628696.556	N 88°37'19.7" E	32.26	01°40'50.0" (L.T.)	05°12'31.3"	32.264	16.133	1100.000
PC	761738.058	1628728.809	N 87°46'54.7" E	481.09					
PT	761756.678	1629209.541							

EY5 TYPE	NORTH	EAST	BEARING	DISTANCE
POT	762120.233	1628455.258		
LINE	762127.488	1628686.589	N 88°12'13.2" E	231.44
POT				

EY6 TYPE	NORTH	EAST	BEARING	DISTANCE
POT	762138.459	1628064.092		
LINE	762122.993	1628455.199	S 87°44'7.6" E	391.41
POT				

EY7 TYPE	NORTH	EAST	BEARING	DISTANCE
POT	761484.504	1628824.594		
LINE	761933.811	1628806.373	N 02°19'20.3" W	449.60
POT				

EY8 TYPE	NORTH	EAST	BEARING	DISTANCE
POT	761458.090	1629163.664		
LINE	761872.361	1629147.922	N 02°08'5.5" W	422.56
POT				

## NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

NOTE: DRAWING NOT TO SCALE

# D Series Sheets

- Design Alignment Cardinal Stations
- This replaces the old “D” sheet produced by Roadway that had alignment points every 50’

6/2/20

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FINAL SAMPLE PLANS  
JULY 2017

PROPOSED ALIGNMENT CONTROL SHEET B-3159

PROJECT REFERENCE NO.	SHEET NO.
B-3159	10-1
Location and Surveys	
PROJECT SURVEYOR	

L			
TYPE	STATION	NORTH	EAST
POT	4+00.00	760376.4606	1626542.1223
PC	10+00.00	761775.7122	1626496.3530
PRC	19+28.79	761902.6830	1626476.7060
PT	20+64.72	762036.7839	1626456.8735
PC	21+43.74	762115.7852	1626455.3473
PT	21+93.58	762165.6848	1626453.9708
POT	23+00.00	762271.9584	1626450.1480

Y			
TYPE	STATION	NORTH	EAST
PC	10+00.00	761050.3042	1626995.4477
PT	40+43.15	761179.8138	1629999.7980

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	760766.5197	1626627.8014
PC	10+70.07	760821.2796	1626584.0950
PT	12+07.25	760947.7978	1626537.4414
POT	12+36.06	760976.5975	1626536.4994

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	762120.2325	1626455.2581
POT	12+31.44	762127.4875	1626686.5886

Y6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	762132.2344	1626221.5081
POT	12+33.87	762122.9931	1626455.1994

Y7			
TYPE	STATION	NORTH	EAST
POT	10+00.00	761326.4367	1629790.5449
PC	13+97.95	761401.7910	1629399.4152
PT	18+02.23	761605.3168	1629154.9287
POT	18+53.57	761736.6167	1629152.9893

RPA			
TYPE	STATION	NORTH	EAST
POT	10+00.00	761296.9217	1629569.5565
TS	10+75.00	761311.7873	1629496.0283
SC	12+59.00	761357.2998	1629317.9736
CS	13+08.67	761415.4817	1629282.3416
ST	15+72.67	761531.0553	1629059.4906
PC	16+84.67	761605.9786	1628976.2410
PT	20+53.28	761716.7844	1628626.1059
POT	21+91.53	761701.4219	1628498.7838

RPC			
TYPE	STATION	NORTH	EAST
POT	10+00.00	761135.4976	1627437.2108
TS	10+75.00	761148.8353	1627511.0153
SC	12+59.00	761172.8339	1627693.3446
CS	14+40.28	761146.2066	1627872.3227
ST	16+24.28	761078.1144	1628042.2322
PC	17+36.28	761030.0558	1628143.3972
PT	19+00.96	760987.7639	1628309.6990
POT	21+22.08	760976.1398	1628522.5069

NOTES:

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- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

NOTE: DRAWING NOT TO SCALE

# E Series Sheets

- R/W and Easement Tables
- Signed and Sealed by PLS

FINAL SAMPLE PLANS  
JULY 2017

## RIGHT OF WAY CONTROL SHEET B-3159

PROJECT REFERENCE NO. B-3159	SHEET NO. 16-1
Location and Surveys	

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	7+67.51	73.84	760746.1612	1628683.1075
L	7+68.15	73.90	760746.8307	1628683.9478
L	7+95.38	-3.60	760771.5113	1628525.6012
L	8+10.63	40.87	760788.2050	1628569.5427
L	8+53.81	-116.27	760826.2284	1628411.0815
L	10+37.00	42.00	761816.9023	1628535.6425
L	19+17.07	-51.34	761878.5459	1628430.0417
L	19+28.79	42.00	761914.0613	1628517.1354
L	20+64.72	-40.00	762036.0113	1628416.0009
L	20+64.72	40.00	762037.5566	1628496.8709
L	20+92.00	-40.00	762063.2837	1628416.3541

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y7	7+67.51	40.00	761411.0891	1629568.9451
Y7	12+05.00	40.00	761428.2056	1629517.8018
Y7	13+97.95	60.00	761468.7629	1629410.4751
Y7	17+08.59	-60.00	761573.2311	1629116.5316
Y7	18+02.23	60.00	761687.5835	1629214.8859
Y7	18+02.23	-60.00	761683.0501	1629094.9715
Y7	18+51.37	-60.00	761732.1538	1629093.1152
Y7	18+51.48	60.00	761736.7983	1629213.0253

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	33+50.00	-106.00	761397.7160	1629327.0025
Y	34+00.00	-99.00	761385.3381	1629376.9452
Y	36+00.00	-90.00	761350.3463	1629577.4167
Y	37+50.00	-85.00	761321.2552	1629726.9963
Y	38+20.00	-145.00	761367.6155	1629887.9299
Y	38+20.00	-130.00	761352.8706	1629885.1749

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
RPA	13+88.67	55.00	761461.5250	1629232.3022
RPA	16+84.67	70.00	761658.0081	1629023.0697
RPA	20+63.28	70.00	761786.2616	1628617.7314

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
RPC	11+25.00	80.73	761878.0452	1627579.0284
RPC	12+59.00	95.00	761877.0570	1627695.4399
RPC	14+02.28	95.00	761857.0859	1627845.4522
RPC	16+24.28	115.00	760974.2391	1627992.6873
RPC	17+36.28	105.00	760935.2136	1628090.3423
RPC	19+08.96	93.00	760894.9024	1628304.6267
RPC	20+19.00	91.01	760898.0868	1628414.6133

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	10+70.07	19.11	760833.2012	1628599.0177
Y2	10+70.07	20.00	760833.7577	1628599.7149
Y2	11+92.47	20.00	760935.0903	1628558.3303

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y5	10+85.00	20.01	762102.8942	1628540.8437

ROW MARKER CONCRETE OR GRANITE-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	11+50.00	22.42	762103.9065	1628378.5051

Statement and Seal

I, \_\_\_\_\_ a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 31st day of July, 2017.

\_\_\_\_\_  
Professional Land Surveyor

L-\_\_\_\_\_  
PLS #

NOTE: DRAWING NOT TO SCALE

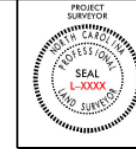
### NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

FINAL SAMPLE PLANS  
JULY 2017

# PERMANENT EASEMENT CONTROL SHEET B-3159

PROJECT REFERENCE NO.	SHEET NO.
B-3159	1E-2
Location and Surveys	



PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	6+84.00	136.03	768665.5550	1628668.7673
L	7+58.83	-63.78	768733.8147	1628456.7215
L	7+97.83	-73.08	768770.8844	1628456.1057
L	8+00.04	10.00	768776.6163	1628539.0386
L	10+01.78	-83.53	761774.4828	1628412.8145
L	10+58.00	62.00	761842.2086	1628552.6898
L	19+28.79	-72.00	761883.1774	1628407.3984
L	19+28.79	62.00	761919.4783	1628536.3831
L	20+64.72	62.00	762037.9814	1628518.8619
L	20+96.08	62.00	762069.3323	1628518.2563
L	21+05.41	-57.51	762076.3530	1628398.5883

PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	14+50.00	130.00	761043.9961	1627458.7392
Y	34+49.00	129.39	761152.8466	1629399.2092
Y	34+49.00	146.00	761136.3526	1629397.2267
Y	34+58.69	146.00	761135.2179	1629406.6000
Y	34+68.95	146.00	761133.9986	1629416.5255
Y	34+78.00	129.33	761149.4531	1629427.3472
Y	34+78.00	146.00	761132.9890	1629425.2732

PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	10+40.00	22.60	762108.0715	1628260.5838
Y6	10+40.00	29.00	762101.6765	1628260.3310
Y6	11+54.89	29.00	762097.1368	1628375.1299

PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y7	12+35.00	64.00	761434.6578	1629571.3690
Y7	13+04.00	118.00	761500.4513	1629513.5853
Y7	13+55.00	52.39	761445.3714	1629451.2861

PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
RPA	16+06.38	180.00	761627.9321	1629181.3340
RPA	16+84.67	180.00	761688.3071	1629043.1384
RPA	20+63.28	180.00	761816.0462	1628614.1424

PERMANENT EASEMENT MARKER-E				
ALIGN	STATION	OFFSET	NORTH	EAST
RPC	12+59.00	115.00	761057.8619	1627695.8810
RPC	13+05.00	115.00	761056.4287	1627732.8542
RPC	13+58.93	226.19	760942.0387	1627759.5620
RPC	13+65.00	115.00	761051.2587	1627788.8006
RPC	14+48.28	115.00	761037.9826	1627839.7953
RPC	14+48.24	243.55	760913.2328	1627887.9663
RPC	16+24.28	135.00	760956.1730	1627984.3074
RPC	17+36.28	125.00	760917.1462	1628089.7594
RPC	19+08.96	113.00	760874.9321	1628383.5359
RPC	20+19.00	112.00	760869.9287	1628413.4686

I, \_\_\_\_\_, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 1st day of August, 2017.

\_\_\_\_\_  
Professional Land Surveyor

L-\_\_\_\_\_  
PLS #

NOTE: DRAWING NOT TO SCALE

## NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

# RW Series Sheets

- Modified Plan Sheets for Clarity
- Property Ties Now On RW Sheets



Signed and Sealed

TIP PROJECT: B-3159

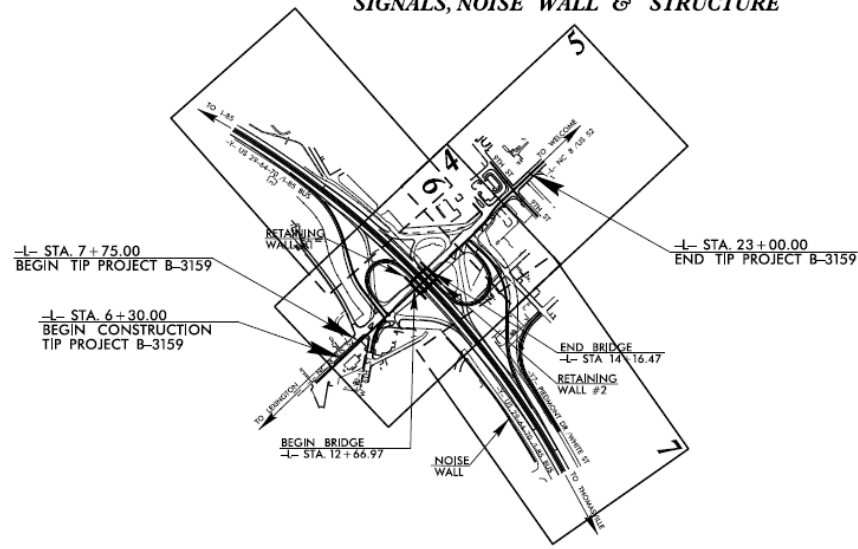


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

RIGHT OF WAY, EASEMENTS,  
AND PROPERTY TIES

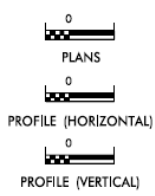
DAVIDSON COUNTY

LOCATION: BRIDGE NO. 27 OVER US. 29-64-70 / I-85 BUS LOOP ON NC 8 / US 52  
TYPE OF WORK: GRADING, DRAINAGE, PAVING, RETAINING WALL,  
SIGNALS, NOISE WALL & STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	PROJECT NO.	TOTAL SHEETS
N.C.	B-3159	RW-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

GRAPHIC SCALE



DESIGN DATA

ADT 2015 = 25,000  
ADT 2035 = 28,600  
DHV = 10 %  
D = 60 %  
T = 5 % \*  
V = 40 MPH  
\* TTST = 2 DUAL = 3  
FUNC CLASS = ARTERIAL  
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY OF TIP PROJECT B-3159 = 0.261 MILES  
LENGTH STRUCTURE OF TIP PROJECT B-3159 = 0.028 MILES  
TOTAL LENGTH OF TIP PROJECT B-3159 = 0.289 MILES

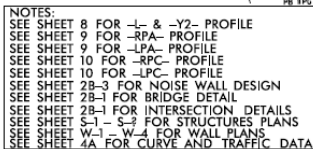
Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

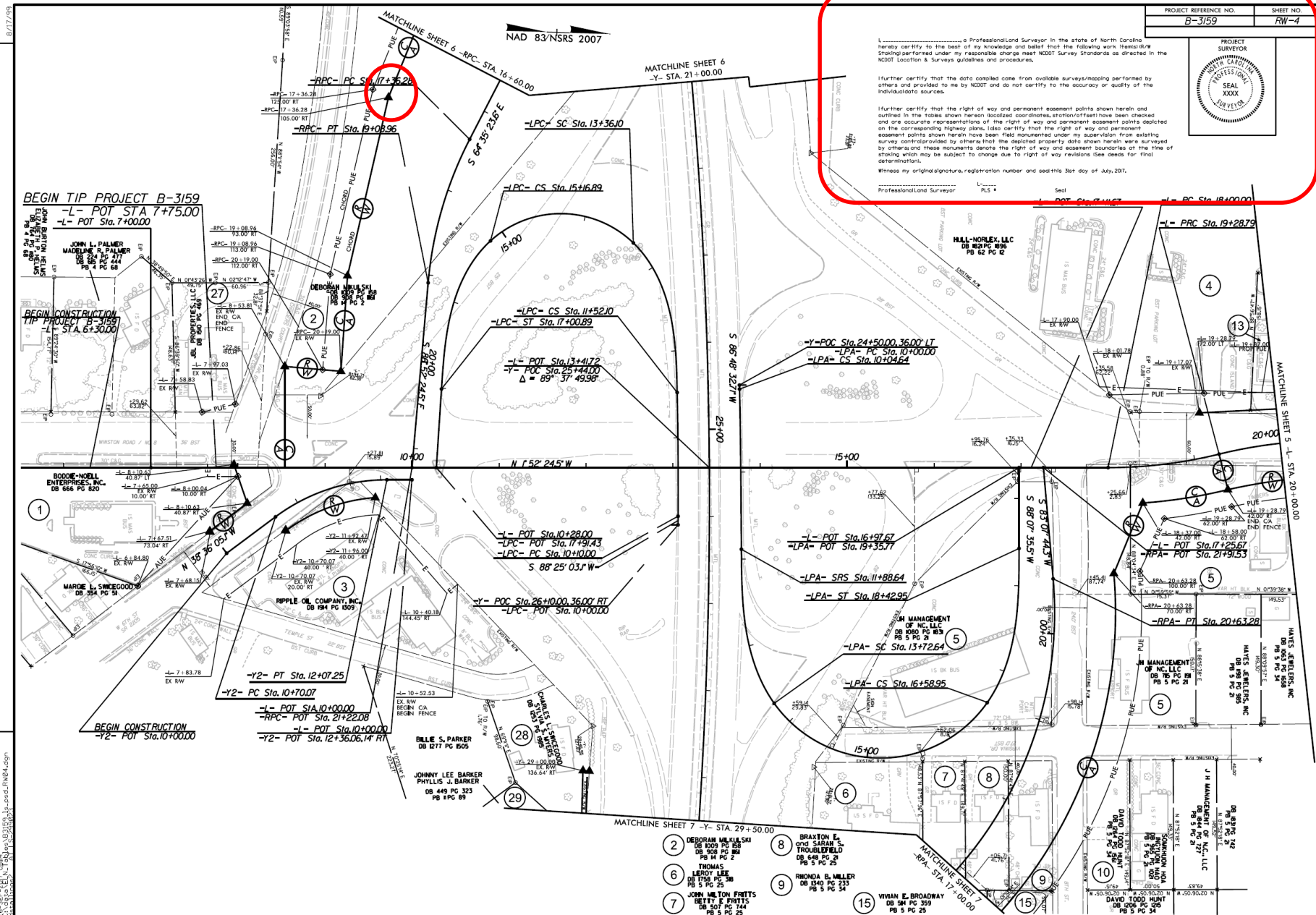
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
JUNE 30, 2014  
LETTING DATE:  
OCTOBER 20, 2015

PROFESSIONAL LAND  
SURVEYOR







**Report of Final R/W and Permanent Easement Survey**

(Replacement and /or Re-establishing Verification of Right of Way and Permanent Easement Markers for the North Carolina Department of Transportation)

TIP No.:

Project No.:

County:

Project Description:

Plans Recorded in: &lt;County Highway Plan Book designation, i.e. Map Book, Page&gt;

I certify that this survey was done under my responsible charge in accordance with the NCDOT Survey Standards as directed in the NCDOT Location & Surveys Guidelines and Procedures and the Manual for Construction Layout for the purpose of (re-establishing/replacement) of R/W and/or permanent easement markers. That per the Project Plans of Record the following list of markers were either re-established or replaced at the following station/offset locations:

Line Descriptor (L, Y, etc.)	Station	Offset	Northing	Easting	Re-placed or Re- established	Type and Material of Original Marker	Type and Material of New Marker
Examples	28+56.23	148.66, Rt.	878,948.23	2,456,128.92	Re-placed	R/W, Iron Pin & Cap	R/W, Concrete
L							
Y	58+72.66	167.89, Lt.	868,785.45	2,456,849.88	Re- established	Easement, Iron Pin & Cap	Easement, Iron Pin & Cap

All bearings and coordinates are referenced to the North Carolina State Plane Coordinate System per Plans of Record.

Witness my signature, registration number and seal this \_\_\_\_ day of \_\_\_\_\_, 20XX

Professional Land Surveyor (Print Name)

PLS#

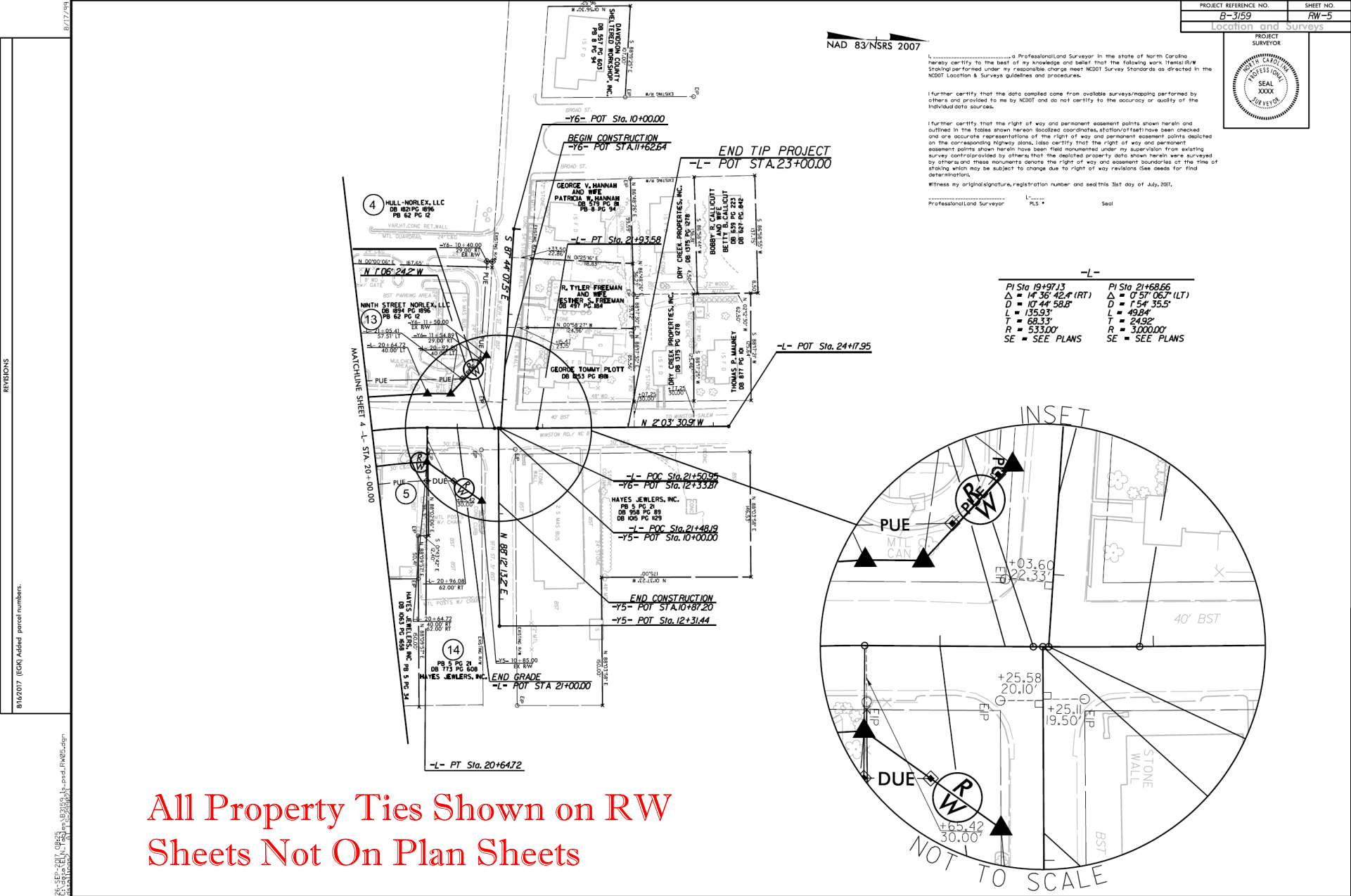


Surveyor's Seal

Signature

**21 NCAC 56 .1602 SURVEYING PROCEDURES**

(f) The results of a survey shall be reported to the user of that survey as a map or report of survey and, whether in written or graphic form, shall be prepared in a clear and factual manner. All reference sources shall be identified. Artificial monuments called for in such reports shall be described as found or set. When no monument is found or set for points described in Paragraph (e) of this Rule, that fact shall be noted.



# Questions/Discussion

